

To: Chris Hassel[CHassel@harwest.com]; Way, Steven[way.steven@epa.gov]; Matt Francis[m.francis@erllc.com]
Cc: Karl Fritz[karl.fritz@deereault.com]; Griswold, Hays[Griswold.Hays@epa.gov]; Nicholas MacGregor[nmacgregor@harwest.com]; Ray Eldridge[ray.eldridge@deereault.com]; Goertz, Dave[Dave.Goertz@WestonSolutions.com]; Christoph Goss[christoph.goss@deereault.com]
From: Christoph Goss
Sent: Thur 10/22/2015 11:04:53 PM
Subject: GK Concrete Floor Plan
[Gold King Survey Summary.xlsx](#)

Gentlemen

Here are the distribution manhole elevations as shot by ITC Surveying. The key is the inflow invert at 11435.06.

In order to design the adit floor slab, we need the excavated floor elevations first thing Friday morning.

Our intent is to design the slab with a thicker section for the pipe/half pipe/trench so that we can still have a full structural slab across the bottom and eliminate the need for the fish plates and tie backs.

We also need a call on the final location of the sump so that we can design for it on the slab (if inside the adit).

Christoph

-----Original Message-----

From: Christoph Goss
Sent: Thursday, October 22, 2015 8:16 AM
To: 'Chris Hassel' <CHassel@harwest.com>; Way, Steven <way.steven@epa.gov>; Matt Francis <m.francis@erllc.com>
Cc: Karl Fritz <karl.fritz@deereault.com>; Griswold, Hays (Griswold.Hays@epa.gov) <Griswold.Hays@epa.gov>; Nicholas MacGregor <nmacgregor@harwest.com>; Ray Eldridge <ray.eldridge@deereault.com>
Subject: RE: Question on GK Concrete Floor Plan

Gentlemen

If you want to pursue this new foundation concept, it will affect the concrete slab by changing the reinforcing and adding the need for drain holes to avoid uplift. In addition it will require a deeper cut off key at the flow control structure.

Please advise if we should proceed with this design change. I will be available until 2pm today if you want to discuss.

Christoph

-----Original Message-----

From: Chris Hassel [mailto:CHassel@harwest.com]
Sent: Thursday, October 22, 2015 7:24 AM
To: Christoph Goss <christoph.goss@deereault.com>
Cc: Karl Fritz <karl.fritz@deereault.com>; Matt Francis <m.francis@erllc.com>; Way, Steven

<way.steven@epa.gov>; Griswold, Hays (Griswold.Hays@epa.gov) <Griswold.Hays@epa.gov>;
Nicholas MacGregor <nmacgregor@harwest.com>
Subject: Re: Question on GK Concrete Floor Plan

The section I described is the same as what you have referenced. We agree with you on roadbase in wet conditions.

Chris Hassel

[OBJ]

HARRISON WESTERN CONSTRUCTION CORPORATION

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Christoph Goss <christoph.goss@deereault.com> wrote:

We have had bad experience with roadbase in a wet environment. It usually turns to mush. If you want to fill the bottom we suggest crushed rock.

How soon will you be able to shoot final elevations of the mucked out adit floor?

Christoph

-----Original Message-----

From: Chris Hassel [mailto:CHassel@harwest.com]

Sent: Wednesday, October 21, 2015 10:17 PM

To: Christoph Goss <christoph.goss@deereault.com>

Cc: Karl Fritz <karl.fritz@deereault.com>; Matt Francis <m.francis@erllc.com>; Way, Steven <way.steven@epa.gov>; Griswold, Hays (Griswold.Hays@epa.gov) <Griswold.Hays@epa.gov>; Nicholas MacGregor <nmacgregor@harwest.com>

Subject: Re: Question on GK Concrete Floor Plan

8" to 12" of road base on top of 3/4" clean rock on top of filter fabric. We can discuss tomorrow if you wish.

Chris Hassel
Harrison Western Construction Corporation

> On Oct 21, 2015, at 9:43 PM, Christoph Goss <christoph.goss@deereault.com> wrote:
>
> We will have to redesign the footings. Do you know approximately how thick the road base layer will be?
>
> Christoph
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>
>> On Oct 21, 2015, at 6:37 PM, Chris Hassel <CHassel@harwest.com> wrote:
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>> The entire area of the concrete pour will get imported fill.
>>
>> Chris Hassel
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>> [OBJ]
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>> Matt Francis <m.francis@erllc.com> wrote:
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>> Nick and I have talked further with Christoph about the plan to pour a complete "floor" in the GK adit . Apparently that detail was lost in the conference call today. The primary question Christoph has is if the area beneath the sill beam is going to be prepped with imported materials like the center of the pour, or if it will still remain as designed (poured directly on native rock)?
>>
>> Matt Francis
>> Environmental Restoration, LLC
>> 303.994.6611
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